

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to Nevada Administrative Code 445A.236)

Permittee Name: Falcon Ridge Investments, LLC
(Formerly Falcon Ridge Development, LLC)
P. O. Box 2637
Mesquite, NV 89024

Permit Number: NEV2000512

Location: Falcon Ridge Golf Course
1024 Normandy Lane
Mesquite, Clark County, Nevada

Latitude: 36° 48.6'
Longitude: 114° 5.98'
Township 13S, Range 71E, Sections 7 & 18
Township 13S, Range 70E, Section 7

Flow: 1.5 MGD (30-Day Average)
3.0 MGD (Daily Maximum)

Wellhead Protection:

The facility is not within an established wellhead protection capture zone. It is within the 7000 foot buffer zones around several public water supply wells owned by the Virgin Valley Water District.

General:

Falcon Ridge Investments LLC (formerly known as Falcon Ridge Development LLC and as Corcha LLC), owns and operates the Falcon Ridge Golf Course, an 18 hole course in Mesquite, Clark County, Nevada. The course is located northwest of the town of Mesquite, and is above the floodplain of the Virgin River. The facility uses tertiary-treated, denitrified and disinfected wastewater effluent from the City of Mesquite Wastewater Treatment Facility (WWTF), administered under NDEP Permit NEV40011, to irrigate fairway turf grasses and other landscape plants. Additional aeration and ozonation are provided in the Falcon Ridge Golf Course pumping/storage lake water feature, lined with an HDPE liner. Seven (7) other water features on the course are filled with fresh water. A separate potable water irrigation system is installed for irrigation of tees and greens.

Discharge Characteristics

Falcon Ridge Golf Course has used treated effluent for irrigation purposes from July 2004 to the present. During the first quarter of irrigation activity, permit limits for fecal

coliform were exceeded in two instances. Since that time, there has been no exceedance of any permit limit. During the period from July 2004 through June 2005, the discharge flow and effluent characteristics have been reported as the following:

Parameter		Maximum	Minimum
Flow (MGD)	30-Day Average <i>Permit Limit = 1.5 MGD</i>	1.31	0.17
	Daily Maximum <i>Permit Limit = 3.0 MGD</i>	NOT REPORTED	NOT REPORTED
CBOD5 (mg/l)	30-Day Average <i>Permit Limit = 30 mg/l</i>	25.5	0
	Daily Maximum <i>Permit Limit = 45 mg/l</i>	34.0	0
Total Suspended Solids (mg/l)	30-Day Average <i>Permit Limit = 30 mg/l</i>	2.0	0
	Daily Maximum <i>Permit Limit = 45 mg/l</i>	2.8	0
Total Nitrogen (mg/l)	30-Day Average <i>Monitor and Report</i>	5.7	1.0
	Daily Maximum <i>Monitor and Report</i>	11.0	1.2
Nitrate as N (mg/l)	30-Day Average <i>Monitor and Report</i>	4.61	0.07
	Daily Maximum <i>Monitor and Report</i>	8.9	0.27
pH (Standard Units)	<i>Permit Limit = 6.0 to 9.0</i>	7.9	6.9
Fecal Coliform (CFN or MPN/100 ml)	30-Day Average <i>Permit = 2.2 CFN or MNP/ 100 ml</i>	12.5	<1.0
	Daily Maximum <i>Permit Limit = 23 CFN or MPN/100 ml</i>	840	<1.0

Receiving Water Characteristics:

The facility Groundwater is encountered at 40 to 60 feet below ground surface, dependent on elevation. Groundwater flow is reported to be toward the south/southwest. Water quality is good, with TDS in the 300 to 500 mg/l range. The groundwater in the area is used for the municipal water supply. No adverse effects are expected to occur as a result of this effluent reuse. There are no monitor wells associated with this permit.

Proposed Effluent Limitations and Monitoring Requirements

The discharge from the facility shall be monitored and limited by the following

EFFLUENT PARAMETERS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)	1.5	3.0	Continuous	Meter
CBOD ₅ (mg/l)	30	45	Weekly	Composite
Total Suspended Solids (mg/l)	30	45	Weekly	Composite
Total Nitrogen as N (mg/l)	10	Monitor & Report	Weekly	Composite
Nitrate as N (mg/l)	Monitor and Report		Weekly	Composite
pH (Standard Units)	6.0 to 9.0		Weekly	Discrete
Fecal Coliform (CFU* or MPN**/100 ml)	2.2	23	Weekly	Discrete

* CFU = Colony Forming Units

** MPN = Most Probable Number

Samples taken in compliance with the monitoring requirements specified in the above table are to be collected prior to effluent reuse. Monitoring requirements may be satisfied by data collected by the City of Mesquite WWTF. Copies of the backup data are to be maintained at the reuse site for inspection by the Division upon request. Discharge Monitoring Reports are to be submitted by the Permittee to NDEP at the following address:

Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, NV 89701-5249

Schedule of Compliance:

The Permittee shall implement and comply with the provisions of the following Schedule of Compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the Schedule of Compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. **Within 60 days of permit issuance**, the Permittee shall submit any updates or revisions to the approved Effluent Management Plan (EMP). If no updates are warranted, a letter stating this condition,

signed by the appropriate signatory, shall be submitted to NDEP at the following address:

Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, NV 89701-5249

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit is being sent to the **Desert Valley Times** and the **Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. **All comments must be received by NDEP by 5:00 pm, April 20, 2006.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person, or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with Nevada Administrative Code (NAC) 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NAC 445A.605.

Proposed Determination:

The Division has made the tentative determination to renew the permit for a period of five (5) years, subject to effluent and monitoring limitations.

Rationale for Permit Requirements:

The limitations and monitoring requirements are intended to provide for appropriate reuse of treated effluent, to minimize the possibility of adverse impact to groundwaters of the State, and to alert those persons who might have contact with treated effluent to its presence at the facility.

Prepared by Janine Hartley
February 2006